Title (en)

BIVALENT ANTIBODY DIRECTED AGAINST NKG2D AND TUMOR ASSOCIATED ANTIGENS

Title (de)

BIVALENTE ANTIKÖRPER GEGEN NKG2D UND TUMOR-ASSOZIIERTE ANTIGENE

Title (fr)

ANTICORPS BIVALENT DIRIGÉ CONTRE NKG2D ET ANTIGÈNES ASSOCIÉS À UNE TUMEUR

Publication

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Application

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Abstract (en)

[origin: WO2016134371A2] A polypeptide is disclosed that binds tumor-associated antigens (TAA) on the surface of cancer cells and a NKG2D receptor. The NKG2D receptor is expressed on the surfaces of killer cells such as natural killer cells, T cells, natural killer T cells, and gamma delta T cells. In some cases, the TAA is CS-1 or EGFRvIII. Also disclosed are polynucleotides encoding the disclosed polypeptides, vectors comprising the disclosed polynucleotides, and host cells comprising the disclosed vectors. Also disclosed are bivalent antibodies comprising the disclosed polypeptides. Also disclosed are pharmaceutical compositions comprising the disclosed antibodies. Also disclosed are methods of treating cancer in a subject using the disclosed bi-specific antibodies.

IPC 8 full level

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CPC (source: EP KR US)

A61K 39/39558 (2013.01 - US); **A61P 35/00** (2017.12 - EP US); **C07K 16/2803** (2013.01 - EP KR US); **C07K 16/2851** (2013.01 - EP KR US); **C07K 16/2863** (2013.01 - EP KR US); A61K 38/1774 (2013.01 - EP US); C07K 2317/31 (2013.01 - EP KR US); C07K 2317/622 (2013.01 - EP KR US); C07K 2317/73 (2013.01 - EP KR US)

Citation (search report)

- [XAI] MAULIK VYAS ET AL: "Natural ligands and antibody-based fusion proteins: harnessing the immune system against cancer", TRENDS IN MOLECULAR MEDICINE, vol. 20, no. 2, February 2014 (2014-02-01), GB, pages 72 - 82, XP055501127, ISSN: 1471-4914, DOI: 10.1016/j.molmed.2013.10.006
- [I] J CHU ET AL: "CS1-specific chimeric antigen receptor (CAR)-engineered natural killer cells enhance in vitro and in vivo antitumor activity against human multiple myeloma", LEUKEMIA, vol. 28, no. 4, 26 September 2013 (2013-09-26), pages 917 - 927, XP055133640, ISSN: 0887-6924, DOI: 10.1038/leu.2013.279
- See references of WO 2016134371A2

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